

IN THE CLAIMS:

MARKED UP VERSION OF THE AMENDED CLAIMS (Version with marking to show changes made)

1. (currently amended) ~~Medical~~ A medical treatment apparatus with a hand piece (1) equipped with an ultrasound vibration generator and a sonotrode (3) attached to the hand piece (1), ~~characterized in that~~ wherein a channel is disposed within the sonotrode for feeding a medical flushing liquid to a tip of the sonotrode; wherein an adaptation sleeve (10) can be slid over the sonotrode (3) of the medical treatment apparatus and wherein the adaptation sleeve (10) can be attached at the hand piece (1), wherein the adaptation sleeve (10) is equipped with a connector (12, 13) for receiving a suction hose (14).
2. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim 1
~~character as in that~~ wherein a separator (15) is furnished between ~~[[the]]~~ a suction apparatus (A) and the suction hose (14).
3. (currently amended) ~~Medical~~ The medical treatment apparatus

according to claim 1

~~characterized in that~~ wherein a suction tube (11) made out of an opaque or transparent material is plugged onto the front end of the adaptation sleeve (10).

4. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim 1

~~characterized in that~~ wherein a treatment face (18) of the sonotrode (3) is disposed clearly outside of the front edge of the suction tube (11).

5. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim 1

~~characterized in that~~ wherein the apparatus is set for frequency region of from 5 kHz to 60 kHz and preferably from 15 kHz to 30 kHz.

6. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim 1

for the treatment of septic wounds and/or debridement comprising the ultrasound generator, the hand piece and the sonotrode attached at the hand piece, wherein the ultrasound

generator operates according to the piezo ceramic principle.

7. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim 6

~~characterized in that an adaptation sleeve (10) can be slid over the sonotrode (3) of the medical treatment apparatus and wherein the adaptation sleeve (10) can be attached at the hand piece (1), wherein the adaptation sleeve (10) is equipped with a connector (12, 13) for receiving of a suction hose (14)~~

further comprising

a flushing line (6) for flushing healing agents to the tip of the sonotrode, wherein the flushing line is aligned relative to an axis of symmetry of the hand piece; and a valve (7) disposed in the flushing line (6).

8. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim 6

~~characterized in that~~ wherein a separator (15) is furnished between the suction apparatus (A) and the suction hose (14).

9. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim 6

~~characterized in that~~ wherein a suction tube out of an opaque or a transparent material is plugged onto the front end of the adaptation sleeve (10).

10. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim 6

~~characterized in that~~ wherein a treatment surface (18) of the sonotrode (3) is disposed clearly outside the front edge of the suction tube (11).

11. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim 6

~~characterized in that~~ wherein the apparatus is set for frequency region from 5 kHz to 60 kHz and preferably from 15 kHz to 30 kHz.

12. (currently amended) ~~Medical~~ The medical treatment apparatus according to

claim 1 for the treatment of septic wounds and/or debridement comprising the ultrasound generator, the hand piece and the sonotrode attached to the hand piece . wherein the ultrasound generator operates according to the magneto strictive principle.

13. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim

~~12, characterized in that an adaptation sleeve (10) can be slid over the~~

~~sonotrode (3) of the medical treatment apparatus and wherein the adaptation sleeve (10) can be attached at the hand piece (1), wherein the adaptation sleeve (10) is equipped with a connector (12, 13) for receiving of a suction hose (14) 7, wherein the flushing line (6) runs along an outside of the handle (1) and changes over to an axial position relative to the handle (1) at the end of the handle (1) toward the sonotrode (3) and wherein an end of the flushing line (6) toward the sonotrode connects to the channel..~~

14. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim

12 ~~characterized in that~~ wherein a separator (15) is furnished between the suction apparatus (A) and the suction hose (14).

15. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim 10

~~characterized in that~~ wherein a suction tube out of opaque or transparent material is plugged onto the front end of the adaptation sleeve (10).

16. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim 12, ~~characterized in that~~ wherein a treatment surface (18) of the sonotrode (3) is disposed clearly outside of the front edge of the suction tube (11).

17. (currently amended) ~~Medical~~ The medical treatment apparatus according to claim 12, ~~characterized in that~~ wherein the apparatus is set for frequency region of from 5 kHz to 60 kHz and preferably from 15 kHz to 30 kHz.

18. (previously presented) A medical treatment apparatus comprising a hand piece (1) including an ultrasound generator, an electrical connection means (4) for feeding electrical energy to the ultrasound generator of the hand piece, and a connector (5) for connecting a line to a storage container for a medical flushing liquid; a sonotrode (3) having a tip and attached to the hand piece (1); a channel disposed within the sonotrode for feeding a medical flushing liquid to the tip of the sonotrode; an adaptation sleeve (10), wherein the adaptation sleeve is slid over the sonotrode (3) and attached to the hand piece (1); a receiver part (12) disposed at the adaptation sleeve (10); a hose connection (13) disposed at the receiver part (12); a suction hose (14) attached to the hose connection (13) of the adaptation sleeve (10); a suction tube (11) attached to the adaptation sleeve (10); a flushing line (6) for flushing healing agents to the tip of the sonotrode, wherein the flushing line is aligned relative to an axis of symmetry of the hand piece; a valve (7) disposed in the flushing line (6).

19. (previously presented) The medical treatment apparatus according to claim 18, wherein the tip of the sonotrode (3) is disposed clearly outside of the front edge of the suction tube (11).

20. (previously presented) The medical treatment apparatus according to claim 19, characterized in that a treatment surface (18) of the tip of the sonotrode (3) and the front edge of the suction tube (11) are inclined and aligned with each other.

21. (previously presented) The medical treatment apparatus according to claim 20, wherein the treatment surface (18) of the tip of the sonotrode (3) is polished.

22. (previously presented) The medical treatment apparatus according to claim 18, wherein the adaptation sleeve (10) screwed on the front region of the hand piece.

23. (previously presented) The medical treatment apparatus according to claim 18, wherein the adaptation sleeve (10) can be plugged or can be connected by way of a clamping cone or by a bayonet catch disposed in a front region of the hand piece.

24. (previously presented) The medical treatment apparatus according to claim 18, wherein the receiver part (12) with the hose connection (13) is disposed at the side of the adaptation sleeve (10) and inclined relative to the axial of symmetry of the adaptation sleeve.

25. (previously presented) The medical treatment apparatus according to claim 18, wherein the suction tube (11) is made out of an opaque or transparent material and is plugged onto the front end of the adaptation sleeve (10) or can be connected by way of a clamping cone or by a bayonet catch on the front

region of the hand piece.

26. (previously presented) The medical treatment apparatus according to claim 18, wherein
a first end of the flushing line (6) after the valve (7) is connected to the channel of the sonotrode (3) and a second end of the flushing line (6) is ending by the connector (5) for connecting the line to a storage container for healing agent.

27. (currently amended) A medical treatment apparatus comprising a hand piece (1)
including an ultrasound generator, a sonotrode (3) having a tip and attached to the hand piece (1); a channel disposed within the sonotrode for feeding a medical flushing liquid to the tip of the sonotrode; and a hose connection (13); a hose (14), wherein ~~[[the]]~~ a first end ~~[[on]]~~ of the hose is inserted into the hose connection (13) at the hand piece; a separator (15), wherein ~~[[the]]~~ a second end of the hose is inserted into the separator; a suction apparatus (A); a connector (17) disposed at the suction apparatus (A); a connection tube (16), wherein the connection tube connects the separator (15) and the connector (17) of the suction apparatus (A).

28. (previously presented) The medical treatment apparatus according to claim 27, further
comprising a main filter disposed in the suction apparatus (A).

29. (previously presented) The medical treatment apparatus according to

claim 27, wherein

the separator (15) is a conventional water trap or a HEPA-filter.

30. (previously presented) The medical treatment apparatus according to

claim 27, wherein

the ultrasound generator operates according to the piezo ceramic principle

and is set for frequency region of from 5 kHz to 60 kHz .

31. (previously presented) The medical treatment apparatus according

to claim 27, wherein

the ultrasound generator operates according to the magneto-
strictive

principle is set for frequency region of from 5 kHz to 60 kHz .

32. (currently amended) A medical treatment apparatus comprising a hand

piece (1) including an ultrasound vibration generator; a sonotrode (3)

attached to the hand piece (1); a channel disposed within the sonotrode

for feeding a medical flushing liquid to a tip of the sonotrode; an

adaptation sleeve (1.0) adapted to be slid over the sonotrode (3)

of the medical treatment apparatus and wherein the adaptation

sleeve (10) is attachable at the hand piece (1); a connector (12, 13)

disposed at the adaptation sleeve (10) and for connecting a suction hose (14).